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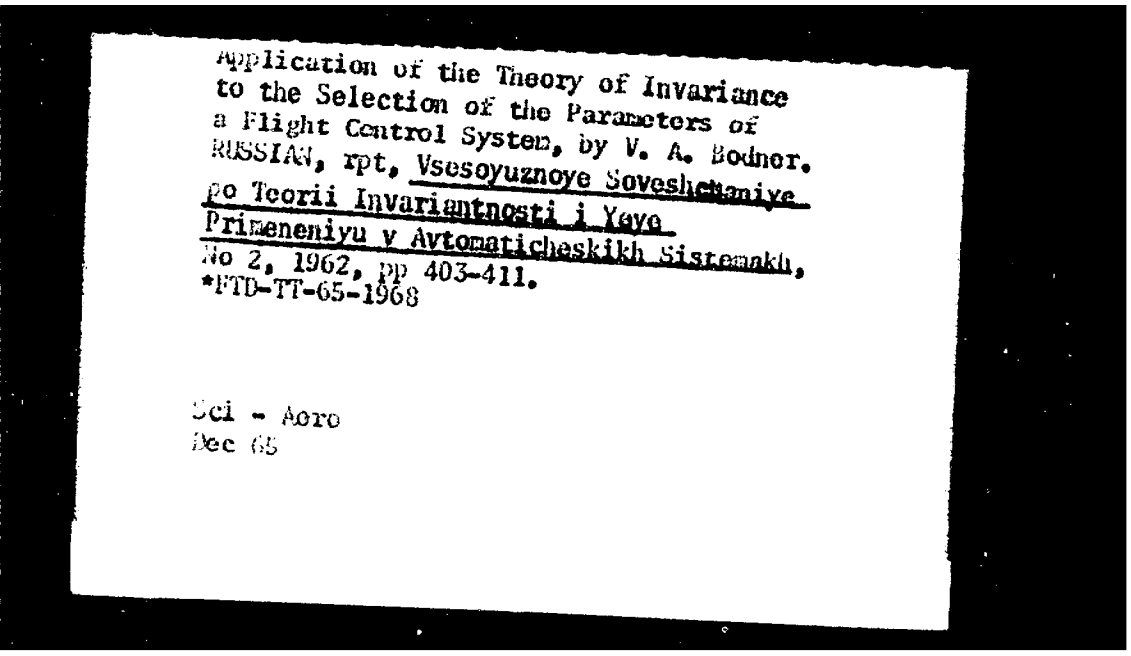

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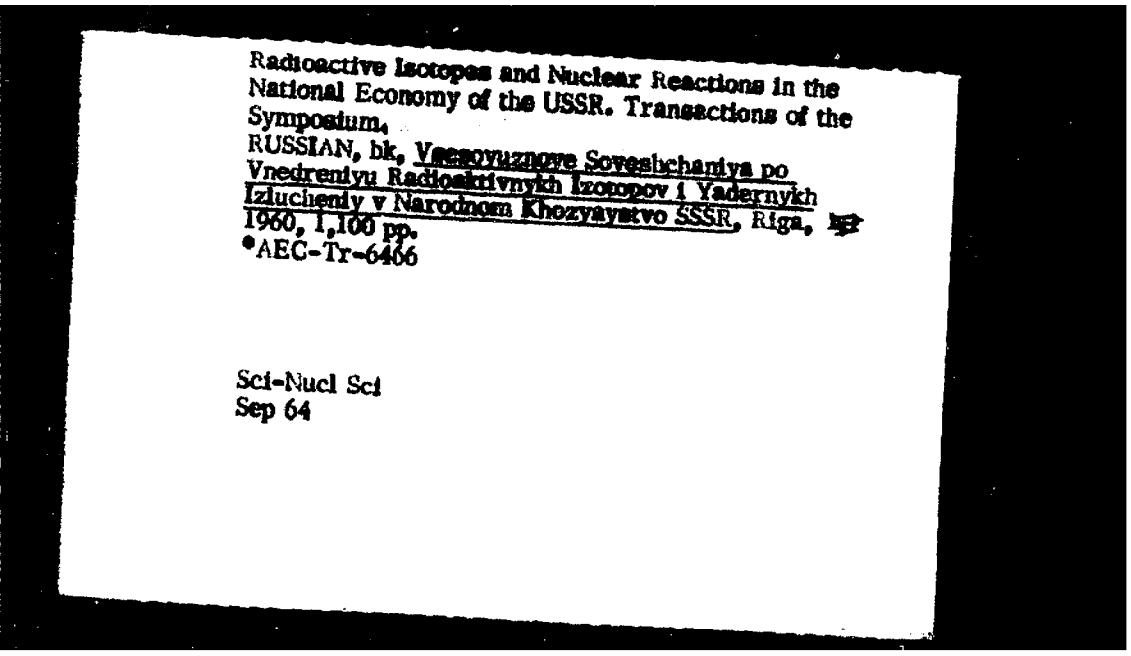

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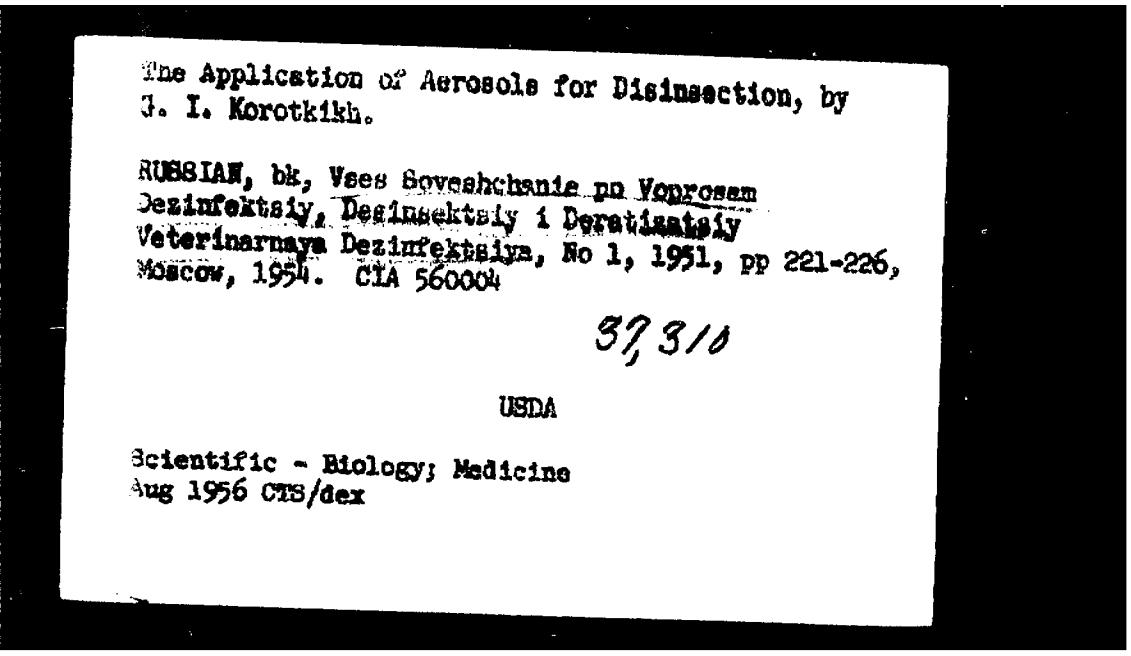

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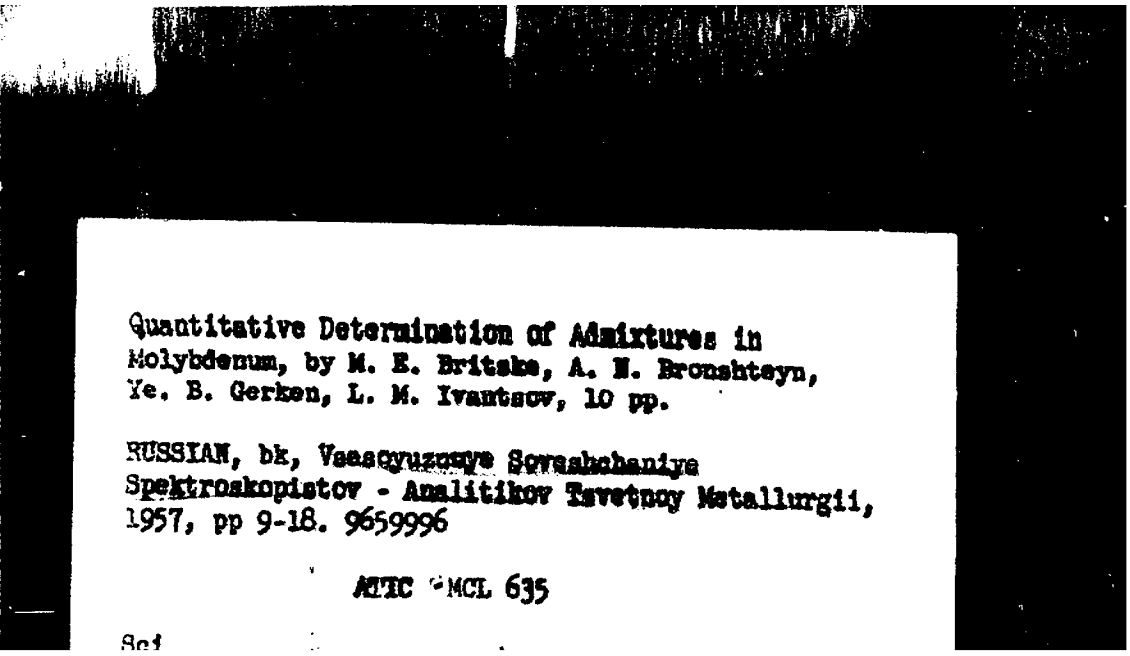

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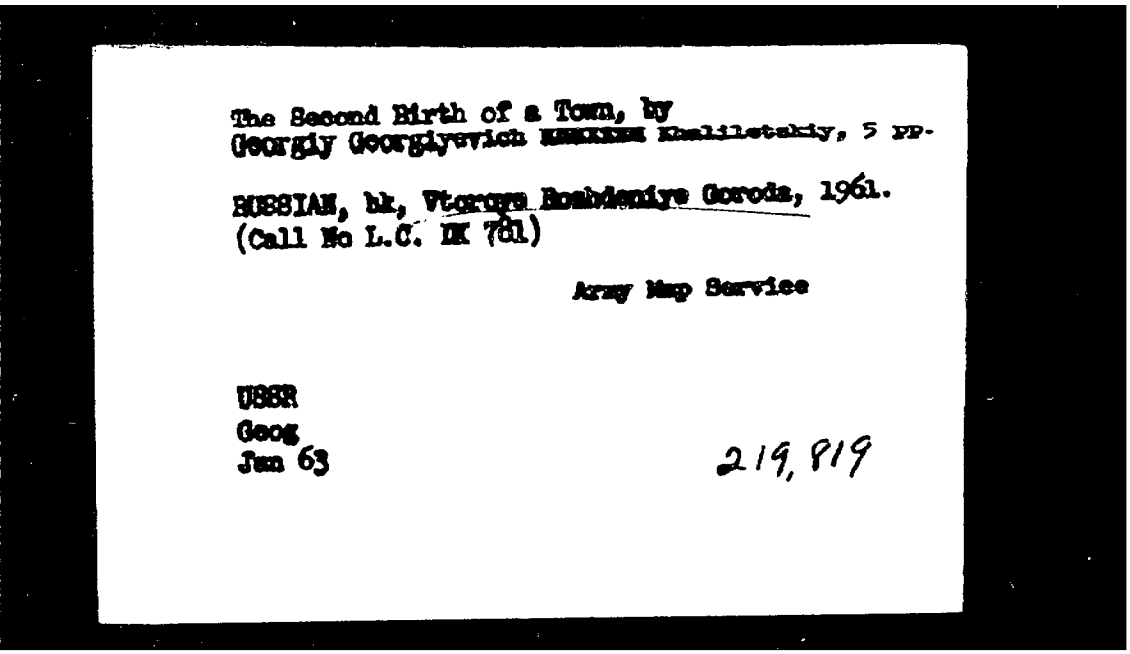

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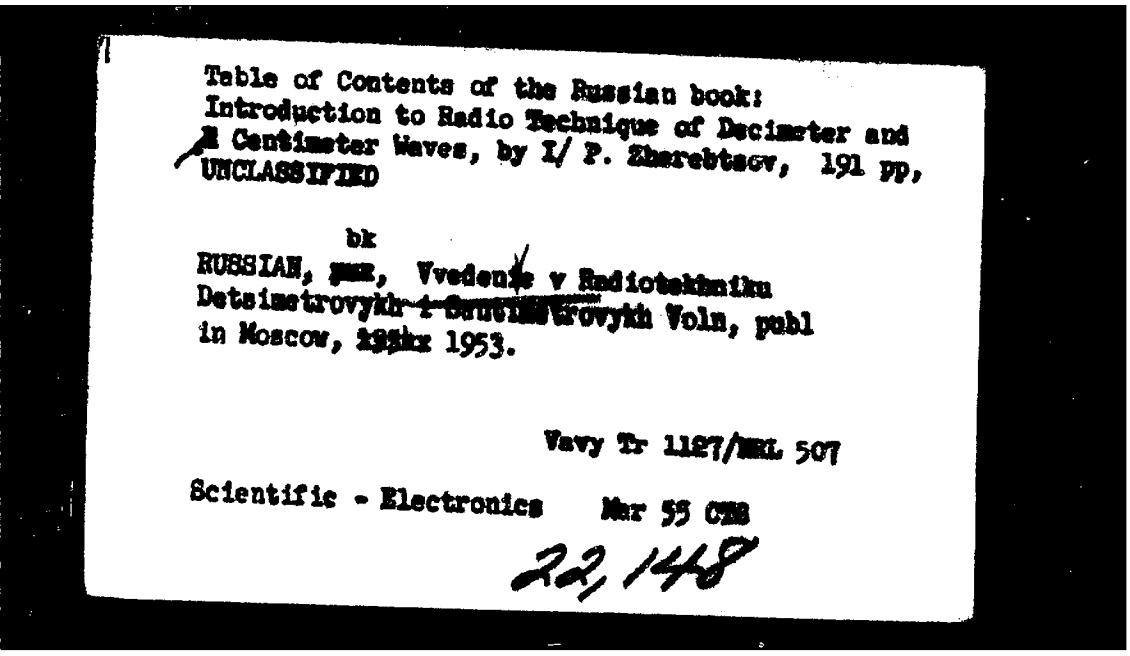

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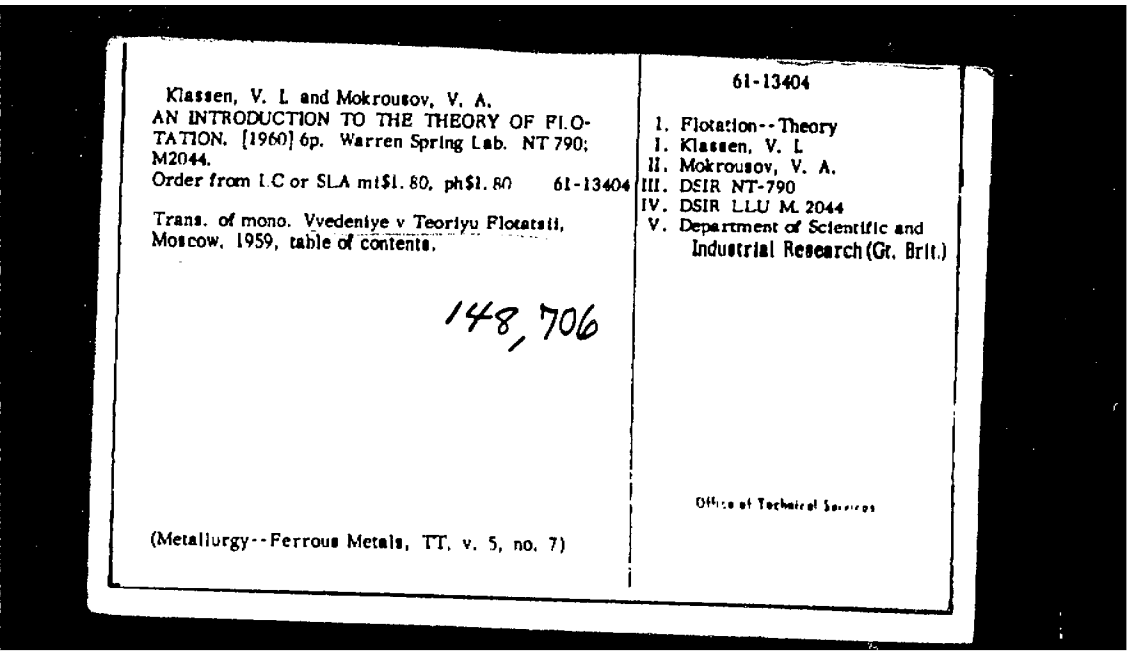

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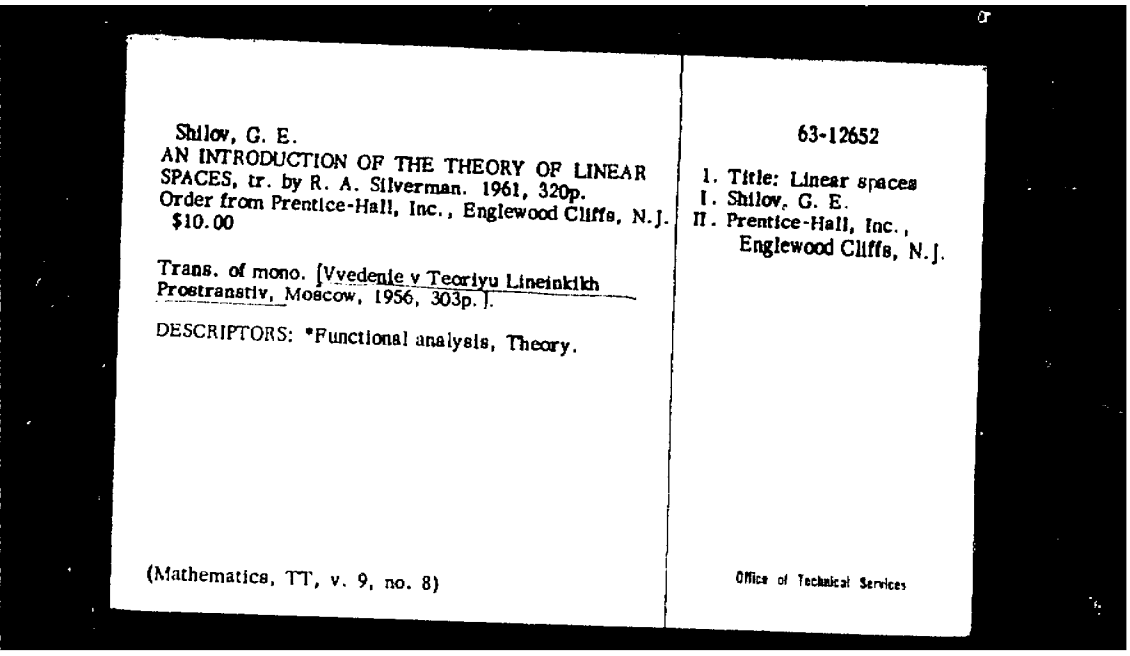

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DESCRIPTORS: *Functional analysis, Theory.

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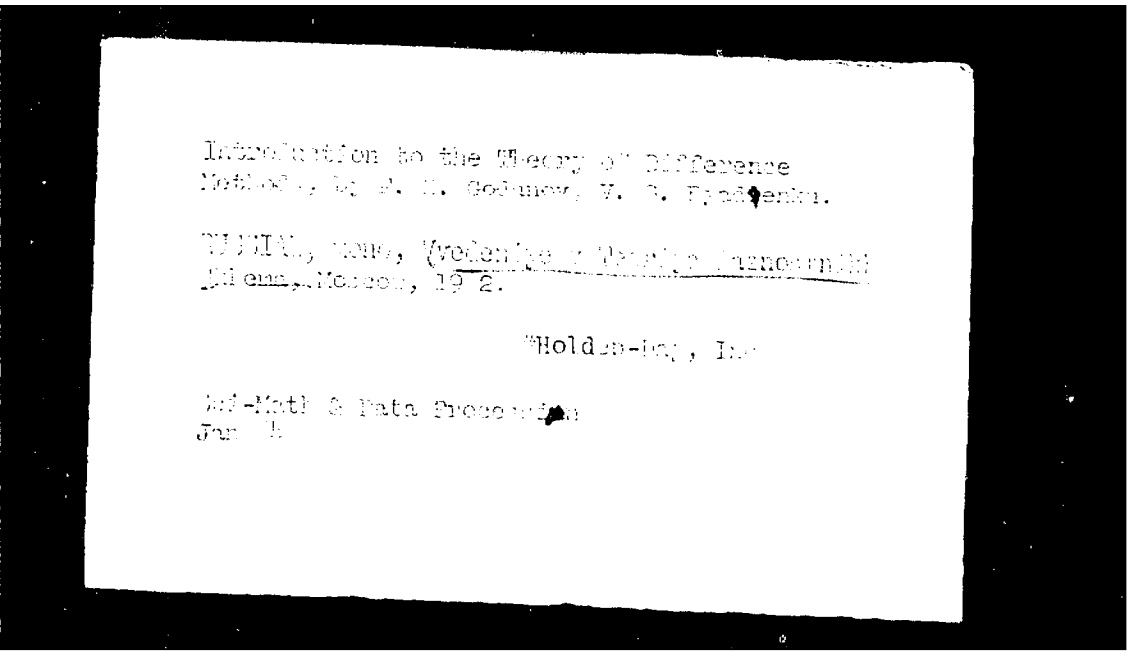

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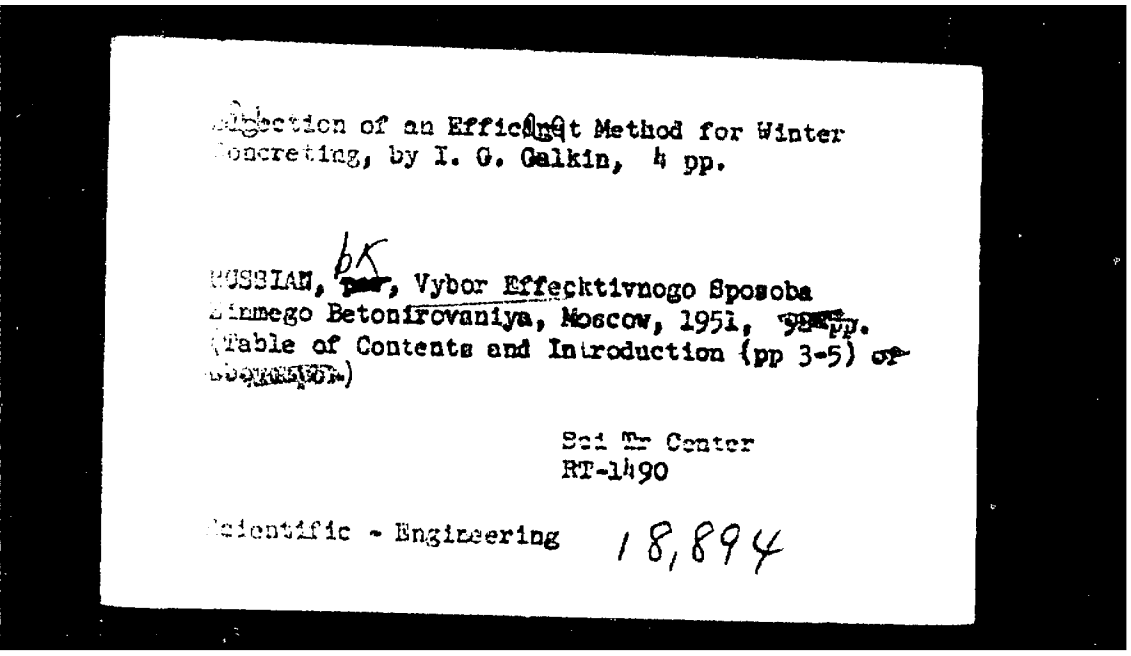

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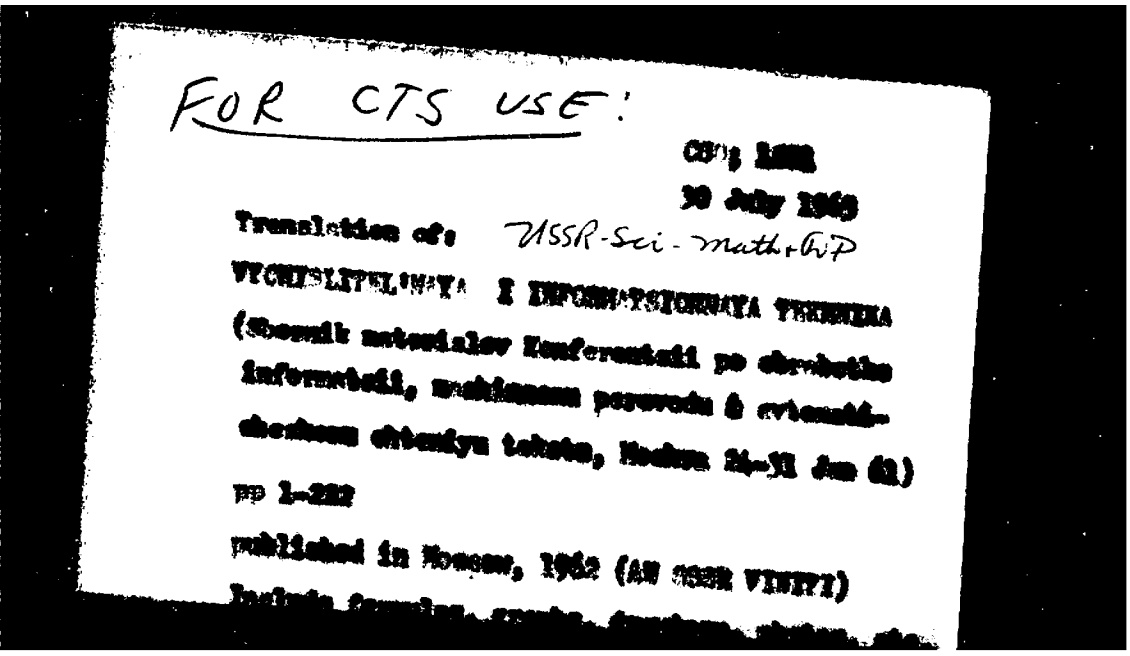

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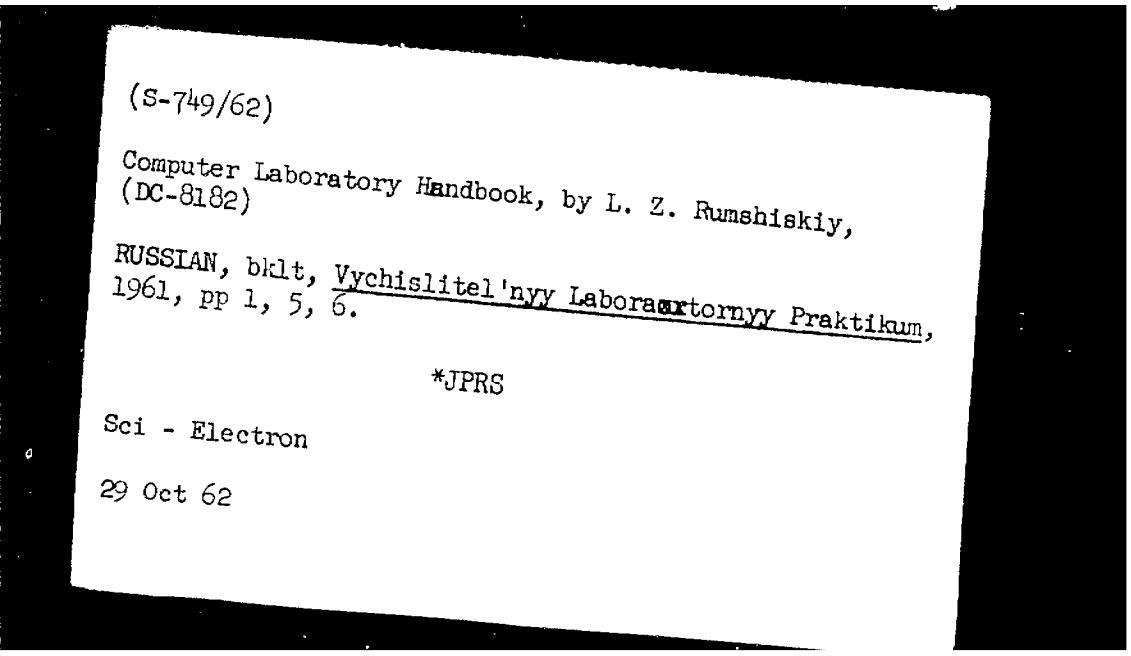

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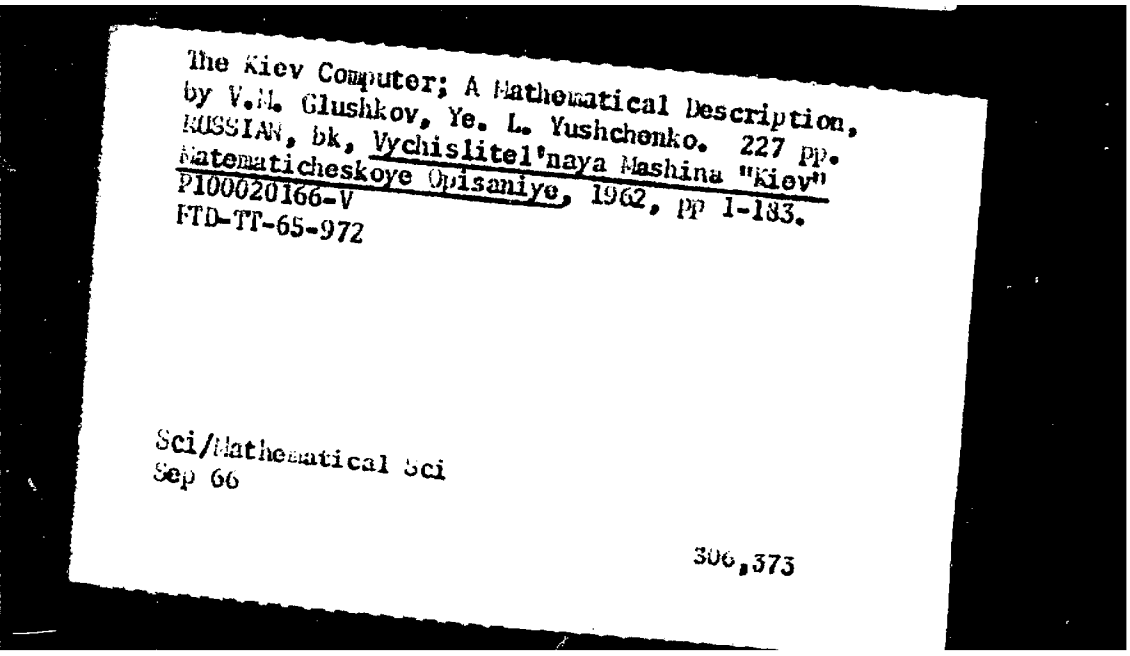

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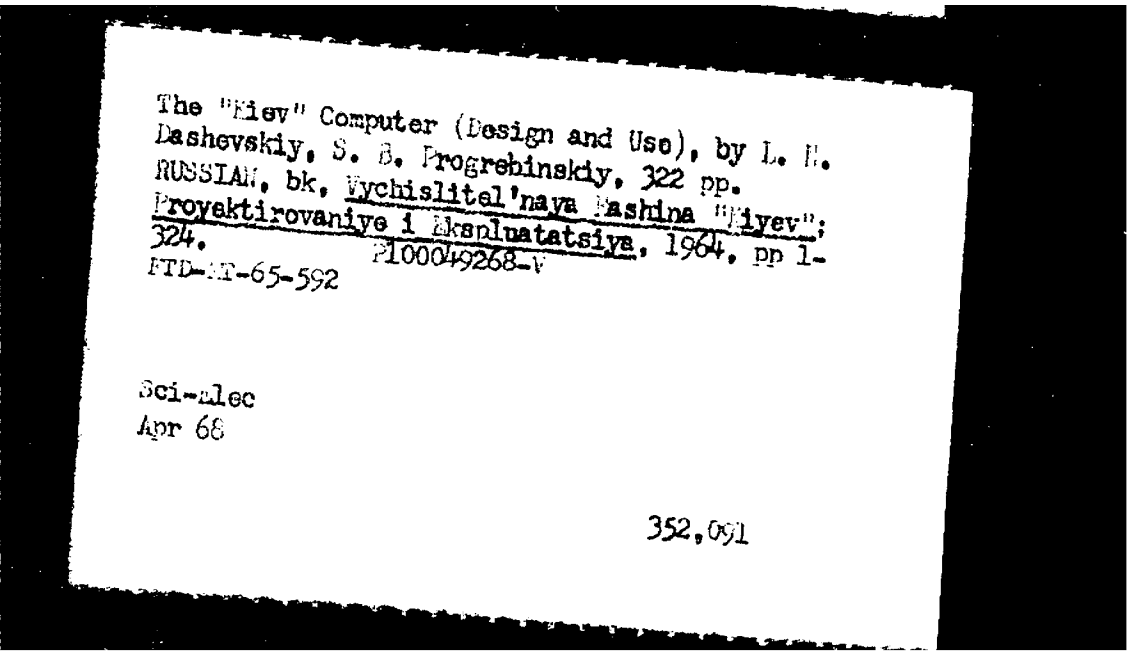

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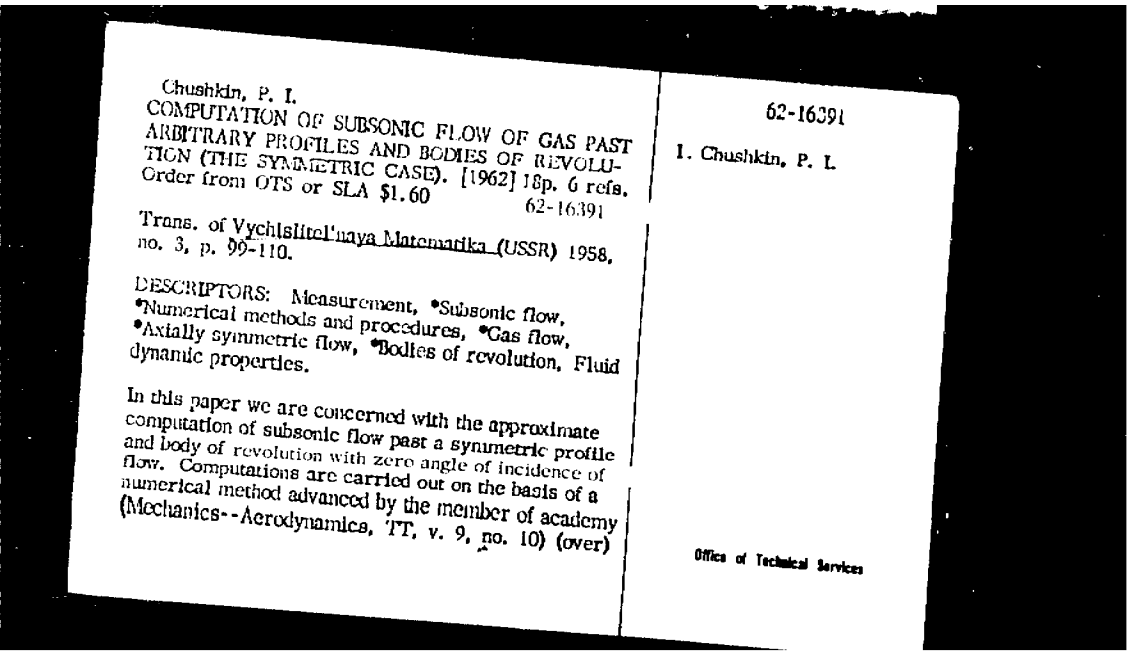

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COMPUTATION OF SUBSONIC FLOW OF GAS PAST ARBITRARY PROFILES AND BODIES OF REVOLUTION (THE SYMMETRIC CASE). [1962] 18p. 6 refs. Order from OTS or SLA $1.60 62-16391

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DESCRIPTORS: Measurement, *Subsonic flow, *Numerical methods and procedures, *Gas flow, *Axially symmetric flow, *Bodies of revolution, Fluid dynamic properties.

In this paper we are concerned with the approximate computation of subsonic flow past a symmetric profile and body of revolution with zero angle of incidence of flow. Computations are carried out on the basis of a numerical method advanced by the member of academy (Mechanics--Aerodynamics, TT, v. 9, no. 10) (over)

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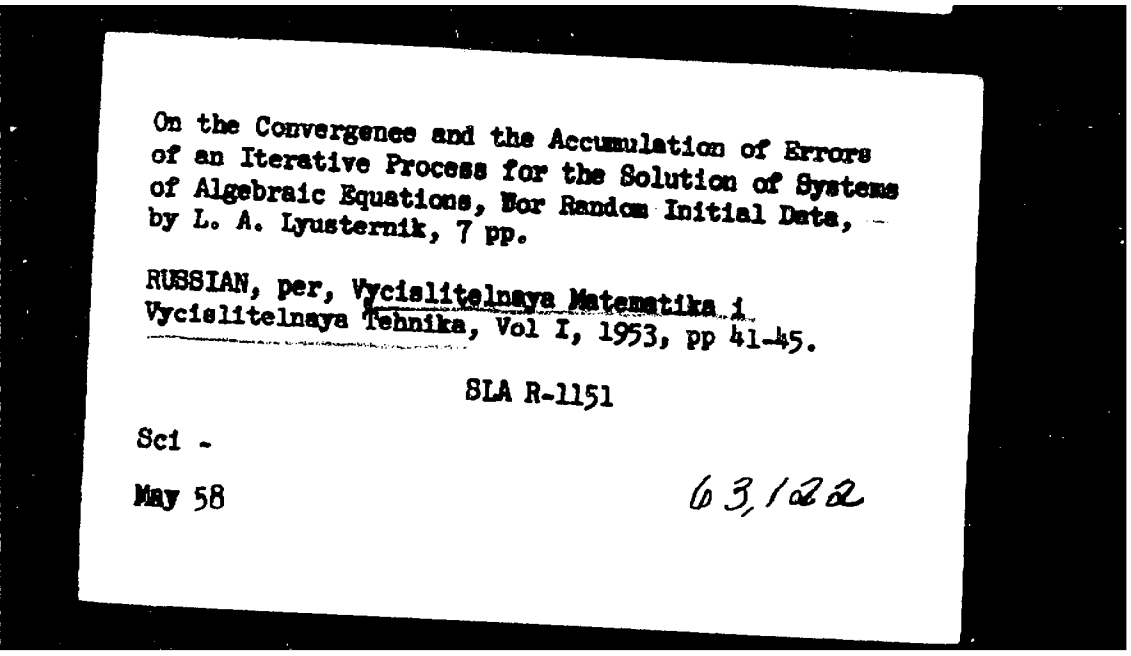

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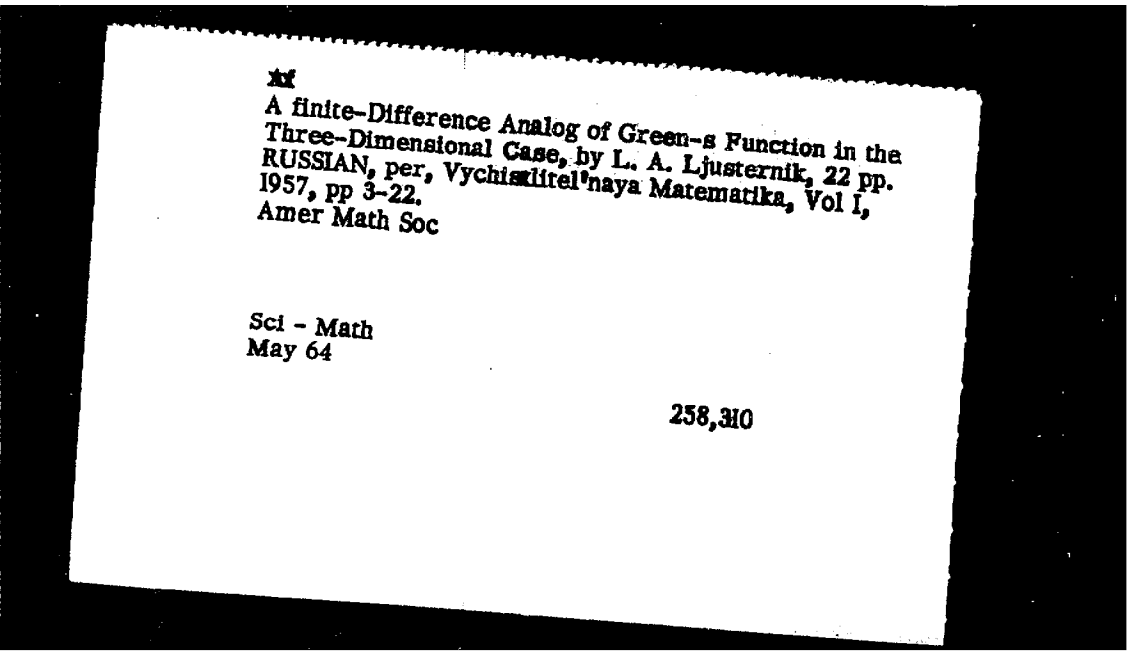

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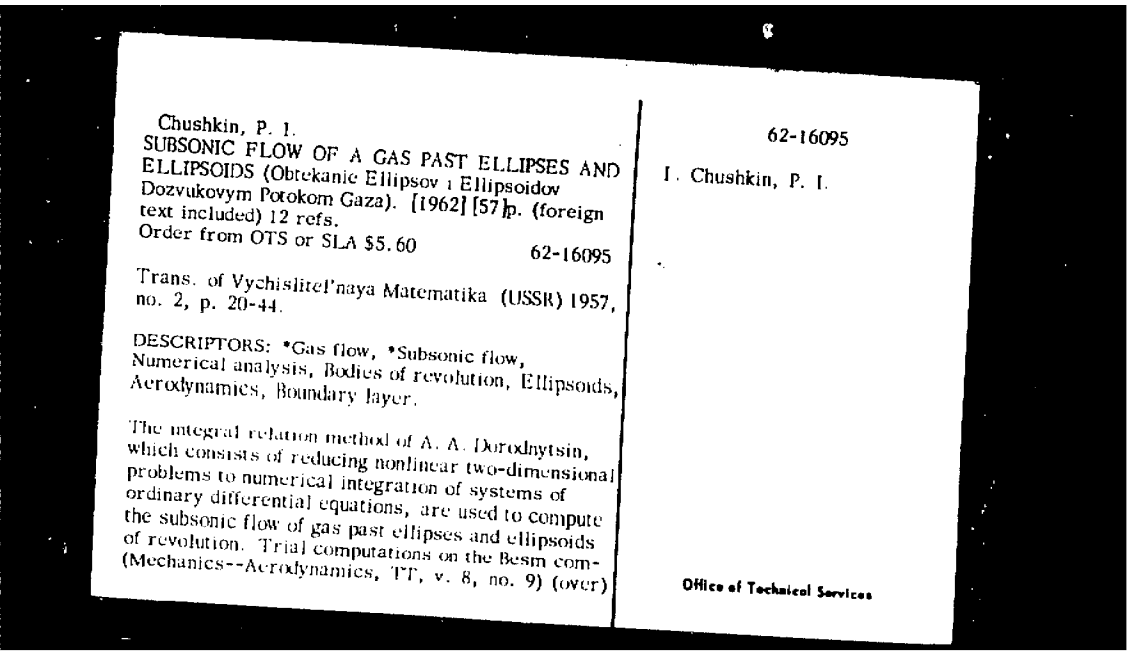

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Trans. of Vychislitel'naya Matematika (USSR) 1957, no. 2, p. 20-44.

DESCRIPTORS: *Gas flow, *Subsonic flow, Numerical analysis, Bodies of revolution, Ellipsoids, Aerodynamics, Boundary layer.

The integral relation method of A. A. Dorodnytsin, which consists of reducing nonlinear two-dimensional problems to numerical integration of systems of ordinary differential equations, are used to compute the subsonic flow of gas past ellipses and ellipsoids of revolution. Trial computations on the Besm com- (Mechanics--Aerodynamics, TT, v. 8, no. 9) (over)

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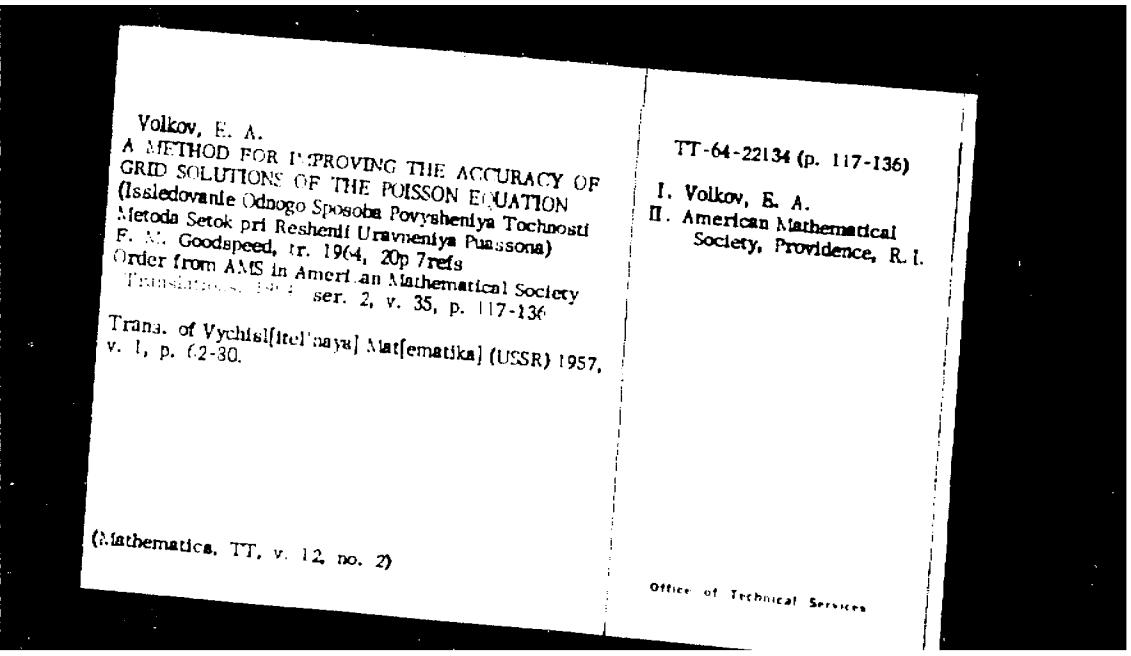

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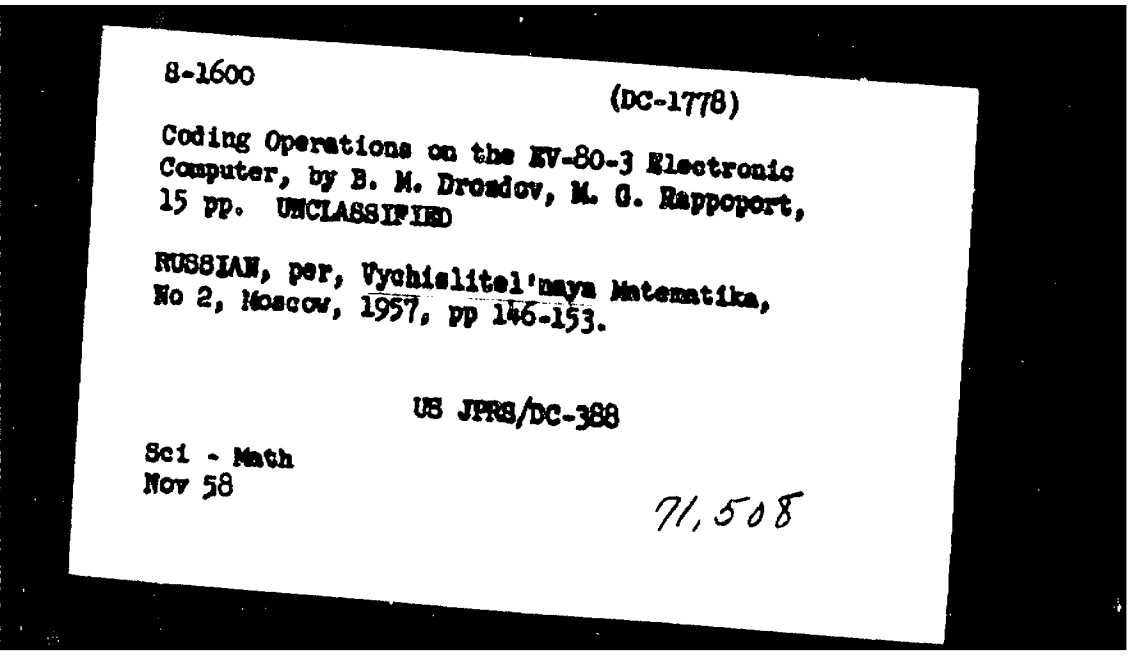

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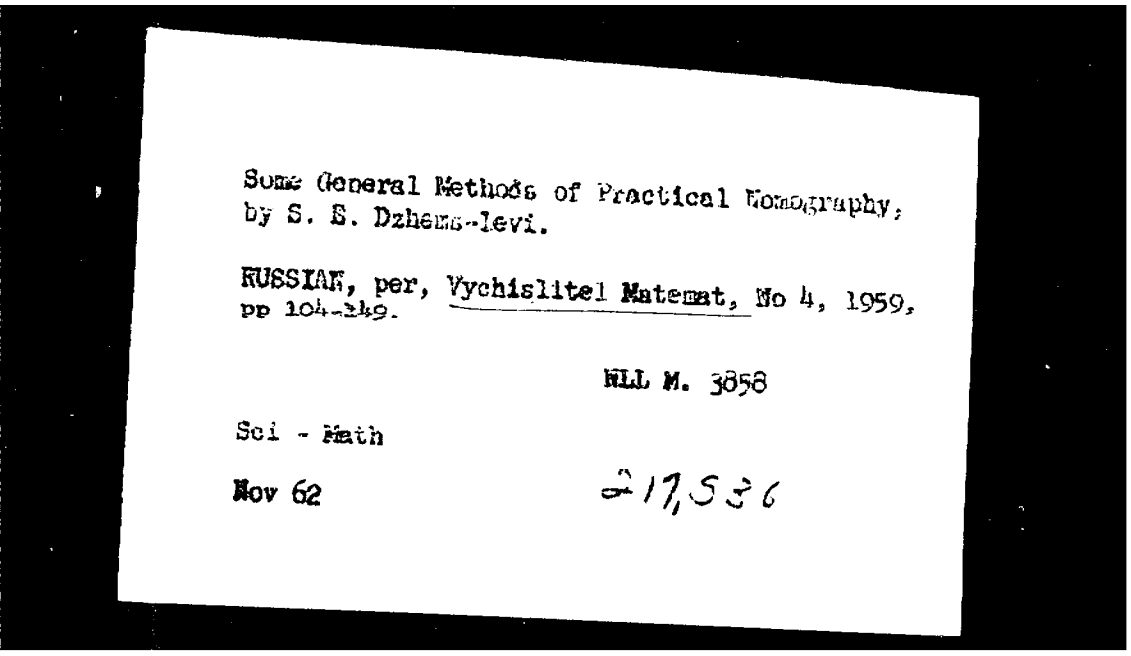

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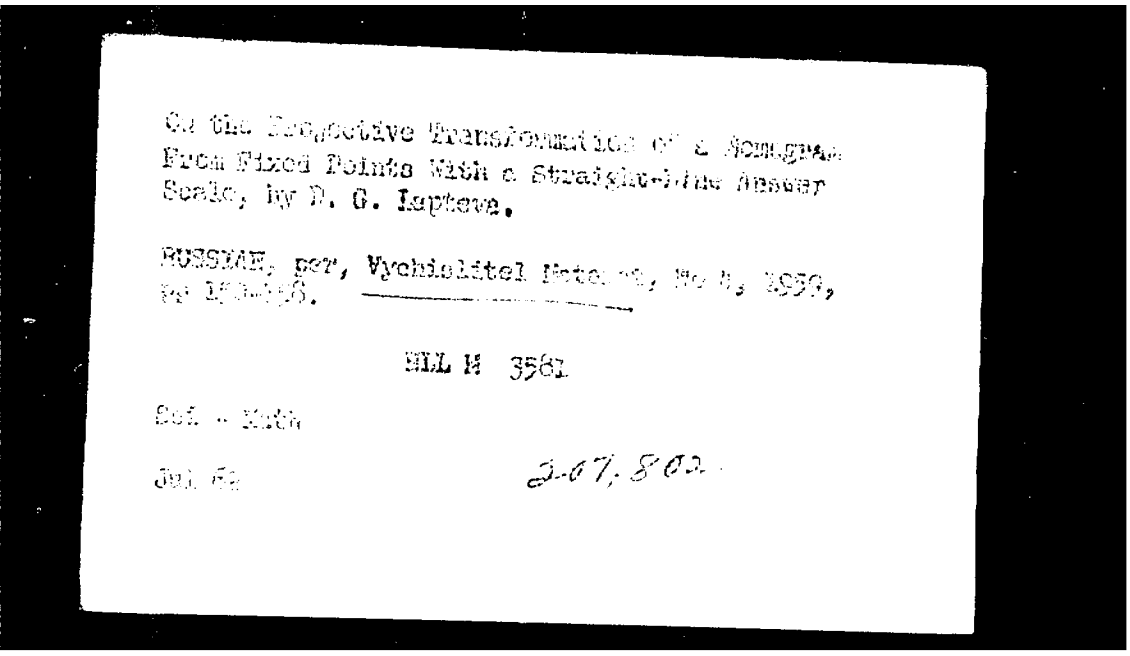

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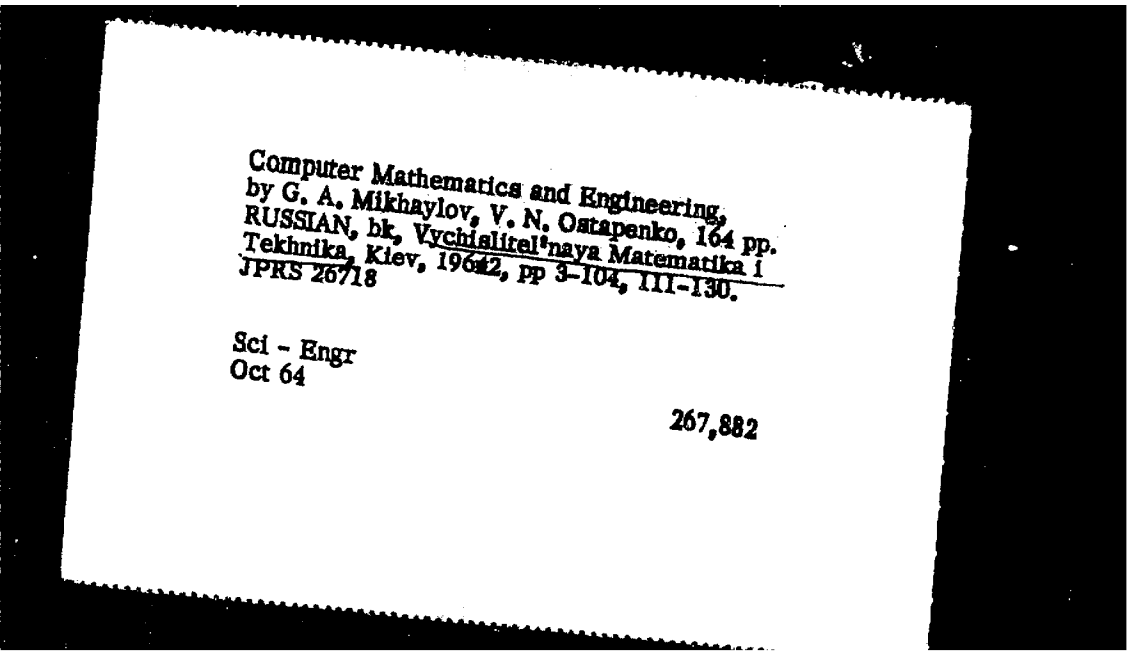

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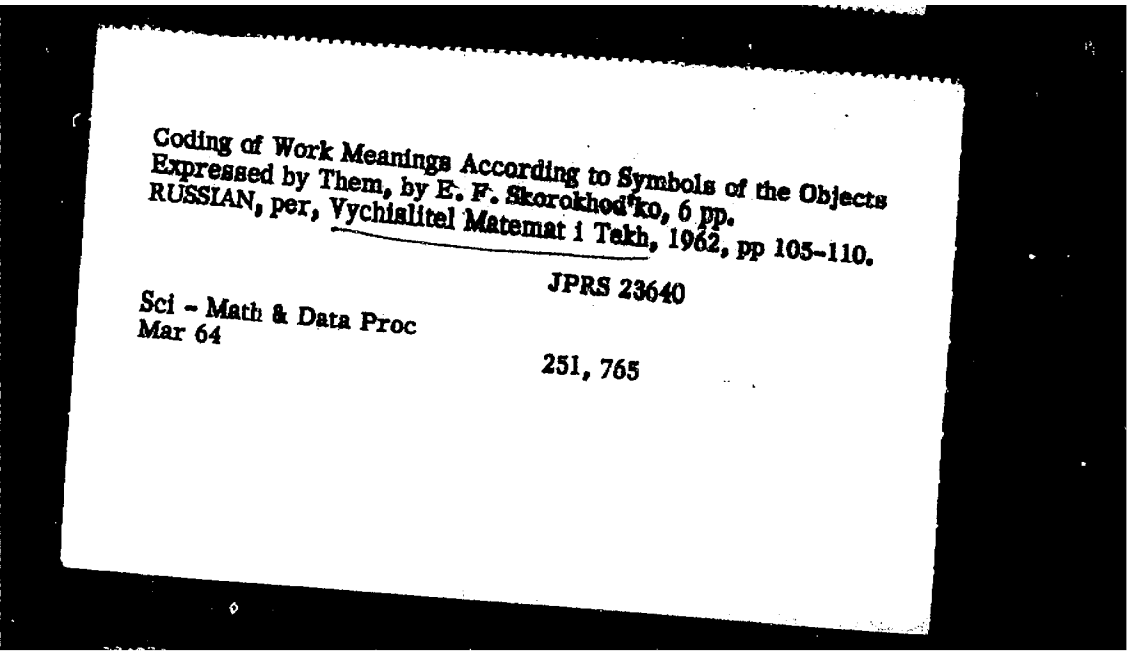

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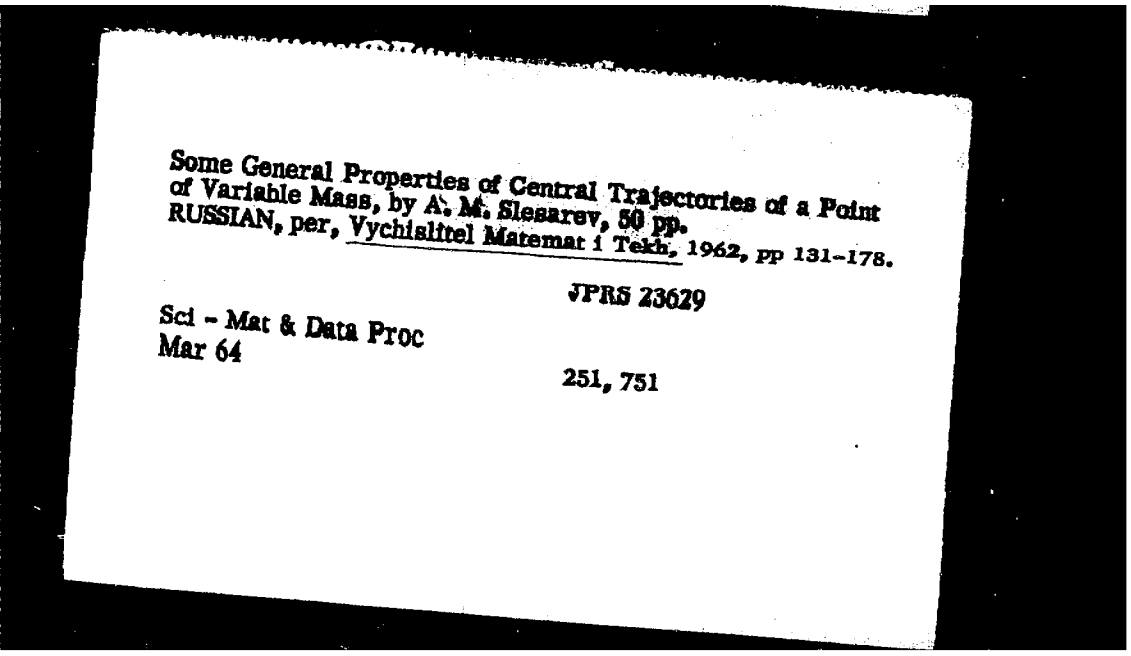

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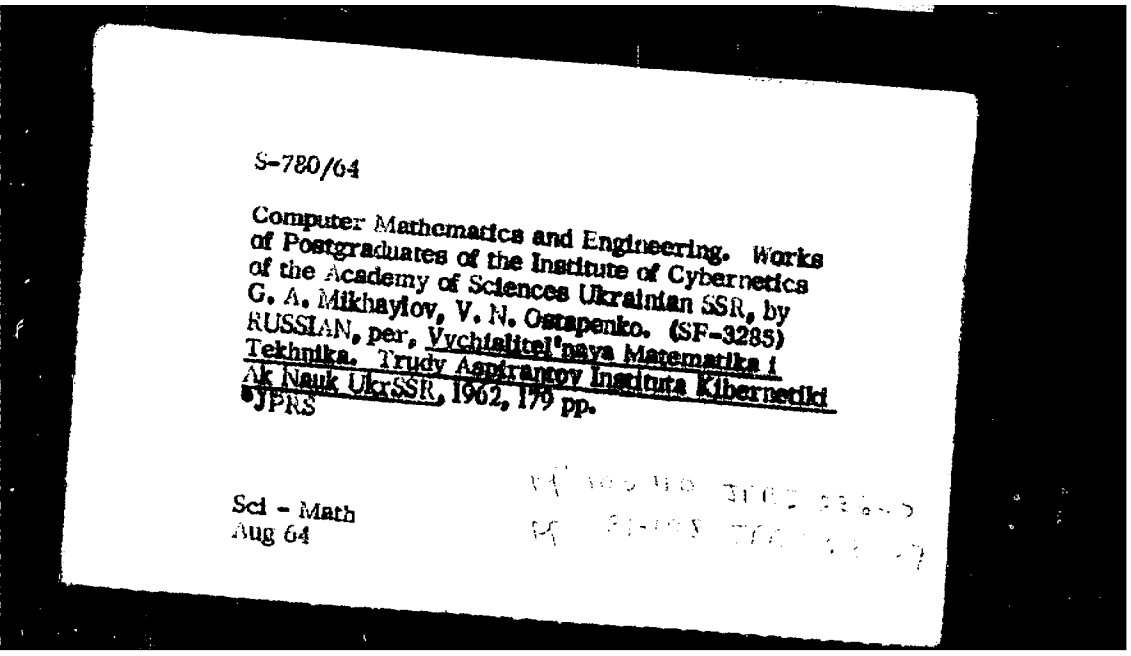

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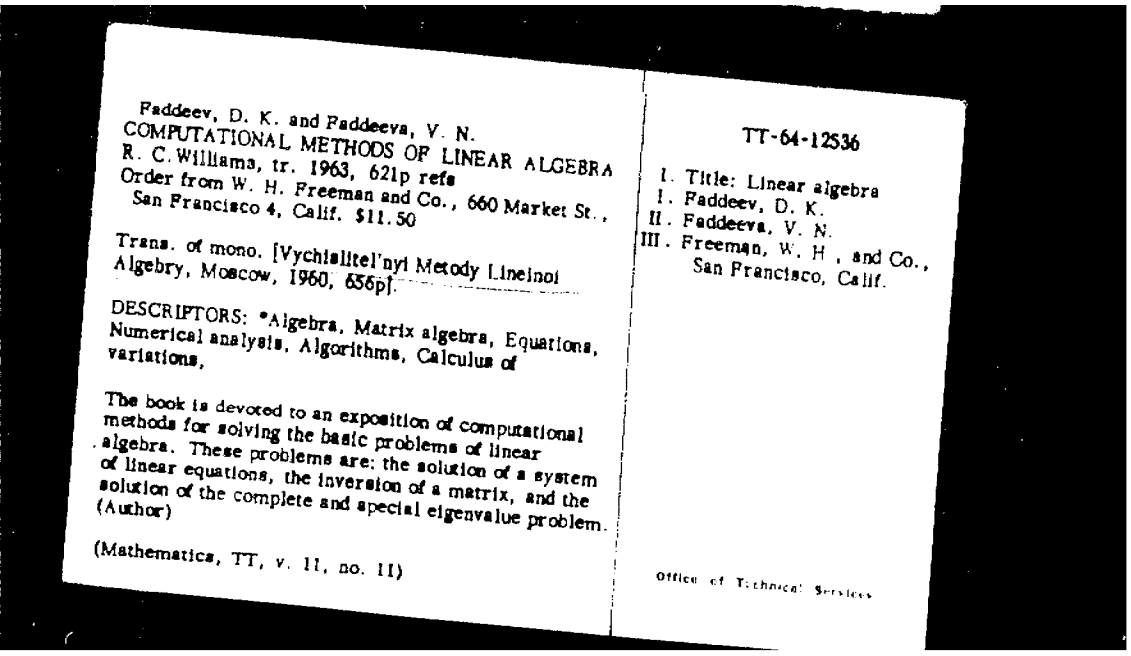

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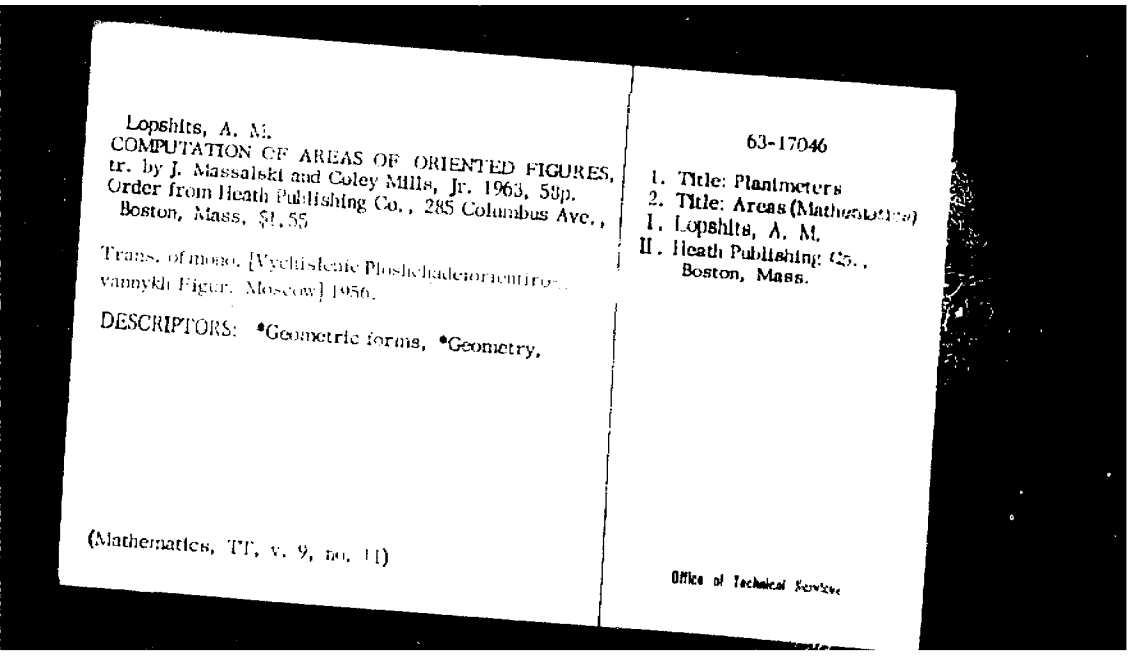

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